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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/740,584	12/18/2000	Jeffrey Morgan Alden	GP-301022	6367

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EXAMINER

CHU, CHRIS C

ART UNIT	PAPER NUMBER
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2815

DATE MAILED: 05/08/2003

8

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/740,584

Applicant(s)

ALDEN ET AL.

Examiner

Chris C. Chu

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 February 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1 - 19 is/are pending in the application.
- 4a) Of the above claim(s) 2, 7 ~ 12, 14 and 19 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 3 ~ 6, 13 and 15 ~ 18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 December 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5. 6) ☐ Other:

## DETAILED ACTION

### *Election/Restrictions*

1. Applicant's election with traverse of Species III in Paper No. 7 is acknowledged. The traversal is on the ground(s) that "applicant respectfully submits that independent claims 1, 8 and 13 are at least generic for both Species I and III." This is not found persuasive because a claim is deemed to be generic if it reads on all of the species. Clearly claims 1, 8 and 13 do not read on all five species identified in the election of species restriction mailed on January 16, 2003. Claims 1, 8 and 13 may read on Species I and III but is not generic to all the species. For instant, claim 8 recites "deleting connecting arcs directed to the temporary data entities" which read only on Species IV, Fig. 6. Therefore, applicant's arguments are both not persuasive and not relevant for the reasons provided above. However, if applicant states for the record that the species are not patentably distinct, then the restriction requirement will be withdrawn.

The requirement is still deemed proper and is therefore made FINAL.

2. A quick review of the claims of instant invention shows that claims 2, 7, 14 and 19 do not belong in Species III. Therefore, Examiner hereby examines claims 1, 3 ~ 6, 13 and 15 ~ 18.

In claims 2 and 14, the limitation "deleting connecting arcs directed to the temporary data entities" belongs in another embodiment of instant application.

In claims 7 and 19, the limitation “the step of adding all global variables to the sub-model” belongs in another embodiment of instant application.

### *Drawings*

3. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description:

In Fig. 2, “26d, 24b and 24a” are not described in the specification of instant invention.

In Fig. 4, “ 26’, 28’, 24b’, 26a’ and 26b’ ” are not described in the specification of instant invention.

In Fig. 6, “84” is not described in the specification of instant invention.

A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: on page 16, line 9 of

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the specification refers to a parent data entity "142" which is not referenced in the figures. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

6. Applicant is required to submit a proposed drawing correction in reply to this Office action. However, formal correction of the noted defect may be deferred until after the examiner has considered the proposed drawing correction. Failure to timely submit the proposed drawing correction will result in the abandonment of the application.

***Claim Rejections - 35 USC § 102***

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claims 1, 3 ~ 6, 13 and 15 ~ 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Hansen.

Regarding claim 1, Hansen discloses in column 2, lines 38 ~ 48 a method of analyzing a sub-model of a full system model, said method comprising the steps of:

- defining the sub-model (lines 41 ~ 47) as a collection of entities (lines 41 ~ 45);

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- determining which of the entities in the sub-model are calculation entities (lines 43 ~ 45) and which are data entities (line 41);
- converting the calculation entities (line 43) in the sub-model that depend on entities (lines 38 and 40) in the full model (lines 38 ~ 48) that are not included in the sub-model into temporary data entities;
- identifying output entities (line 46,  $a[j]$ ) in the sub-model, where the output entities are calculation entities that do not have an output to another entity; and
- analyzing the sub-model (line 41,  $I \leq N$ ) by performing the calculations for the calculation entities.

Regarding clam 3, Hansen discloses in column 2, lines 38 ~ 48 the step of identifying isolated cycles (lines 44 ~ 45) in the sub-model.

Regarding clam 4, Hansen discloses in column 2, lines 38 ~ 48 the step of identifying isolated cycles including selecting an entity (line 45) in an isolated cycle as an output entity (line 45,  $a[j]$ ).

Regarding clam 5, Hansen discloses in column 2, lines 38 ~ 48 the step of selecting an entity in an isolated cycle as an output entity including arbitrarily selecting an entity in the isolated cycle as an output entity (line 45).

Regarding clam 6, Hansen discloses in column 2, lines 38 ~ 48 the step of assigning data to all data entities (line 41 and 43) in the sub-model, said step of assigning data including assigning data to the temporary data entities (lines 44,  $a[j - 1] > v$ ).

Regarding clam 13, Hansen discloses in column 2, lines 38 ~ 48 a system for analyzing a sub-model separated from a full system model, said system comprising:

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- means for defining the sub-model (lines 41 ~ 47) as a collection of entities (lines 41 ~ 45);
- means for determining which of the entities in the sub-model are calculation entities (lines 43 ~ 45) and which are data entities (line 41);
- means for converting the calculation entities (line 43) in the sub-model that depend on entities (lines 38 and 40) in the full model (lines 38 ~ 48) that are not included in the sub-model into temporary data entities;
- means for identifying output entities (line 46,  $a[j]$ ) in the sub-model, where the output entities are calculation entities that do not have an output to another entity; and
- means for analyzing the sub-model (line 41,  $I \leq N$ ) by performing the calculations for the calculation entities.

Regarding clam 15, Hansen discloses in column 2, lines 38 ~ 48 means for identifying isolated cycles (lines 44 ~ 45) in the sub-model.

Regarding clam 16, Hansen discloses in column 2, lines 38 ~ 48 means for identifying including means for selecting an entity (line 45) in an isolated cycle as an output entity (line 45,  $a[j]$ ).

Regarding clam 17, Hansen discloses in column 2, lines 38 ~ 48 means for selecting an entity including arbitrarily selecting an entity in the isolated cycle (line 45).

Regarding clam 18, Hansen discloses in column 2, lines 38 ~ 48 means for assigning data to all data entities in the sub-model (line 41 and 43) and assigning data to the temporary data entities (lines 44,  $a[j - 1] > v$ ).

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*Conclusion*

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kato, Herlihy and Kimura disclose a coding.

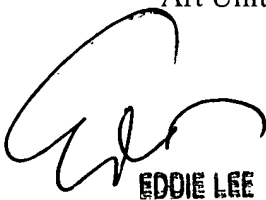
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris C. Chu whose telephone number is (703) 305-6194. The examiner can normally be reached on M-F (10:30 - 7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on (703) 308-1690. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7382 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Chris C. Chu  
Examiner  
Art Unit 2815

c.c.  
May 5, 2003



EDDIE LEE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800